



eCoastal Evolutions

Quarterly Newsletter for eCoastal GIS Users

February 2006

Volume One, Issue One

Welcome!

Welcome to the first issue of *eCoastal Evolutions*! It is our latest form of communication to keep our user group informed on the latest updates to the eCoastal program. In this issue we will discuss available training, database upgrades, and latest additions to the eGIS toolbar.

eCoastal Training

A new component to eCoastal is the addition of specialized training for coastal engineers on the eGIS tools and applications. This is a 4-day course held at least 3-4 times a year at a coastal district. The training will be a hands-on, instructor led course that focuses on learning the design, implementation and use of the eCoastal tools. This course is designed for anyone who is interested in learning the basics of the eCoastal architecture and the utility of all of the custom tools and applications in the eCoastal toolbar. It is recommended that participants have a basic understanding and working knowledge of ArcGIS.

Most computer training labs limit us to only accommodating 20 students, so upon course announcements, please RSVP as soon as possible.

Where is the next training being held?

The following Districts have requested training classes at their site:

Philadelphia March 2006

Honolulu..... April 2006

Los Angeles April 2006

If you would like to offer eCoastal training at your District the cost is minimal – just travel, per diem, and salary for the course instructor.

For more information on eCoastal training and access to the online course modules, please visit

http://gis.sam.usace.army.mil/programs/training/Training_eCoastal.htm

eCoastal Database Updates

Using the Spatial Data Standards ESRI Geodatabase Builder, a "shell" database was created that includes common types of coastal data. Over time, additional feature datasets and classes are added or modified in the database design. In the past, the Spatial Data Branch has always distributed the database in the format of MS Access. In most cases, this *.mdb file is too large to send via email and can be cumbersome to have multiple versions of the database on hand. To prevent future confusion, the Spatial Data Branch will now distribute the eCoastal template as a **database filter**. For the latest version of the database filter visit the **Downloads** section of the eCoastal website at <http://gis.sam.usace.army.mil/eCoastal>.

What is eCoastal?

The concept of enterprise GIS (eGIS) is to take a complete organizational approach to sharing, using, and managing spatial information. eCoastal is an enterprise Geographic Information System (GIS) developed for coastal engineering business practices. It was developed to concentrate on the specific needs of the coastal engineer, scientist and manager. It is an architecture developed by the U.S. Army Corps of Engineers that utilizes spatial data standards (SDS), geodatabase development, and desktop and web applications. eCoastal was designed as data management solution to provide baseline information for effective planning and prediction of regional and local coastal processes.

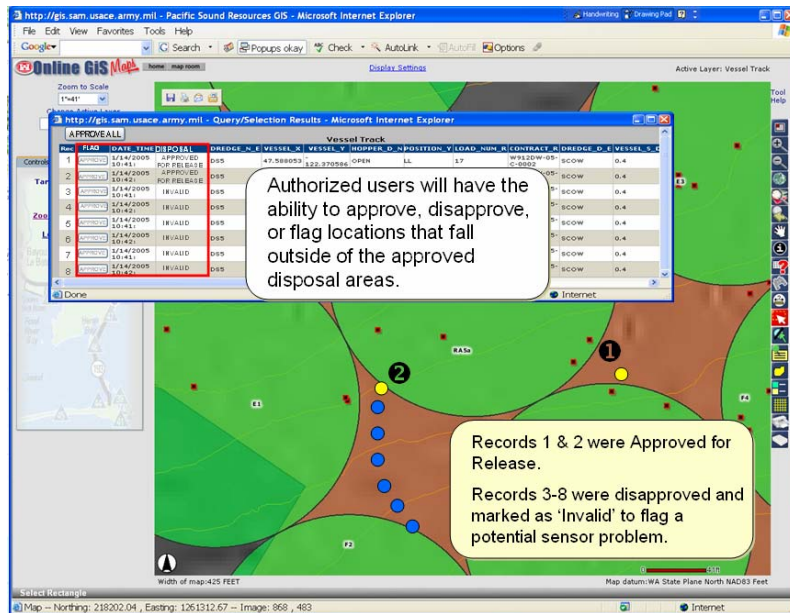
Did you know?

ESRI offers **free** modules of GIS training with their virtual campus? To access these modules, visit - <http://campus.esri.com/>

X_COORD	Y_COORD	Z_COORD
1401702.37509	506443.310586	9.43
1401699.77036	506428.538449	8.95
1401695.25551	506402.933448	8.85
1401692.47714	506387.176524	6.85
1401691.08796	506379.298062	6.15
1401682.40555	506330.057674	3.35
1401673.72314	506280.817286	1.45
1401667.4718	506245.364207	0.1
1401665.04073	506231.576899	-0.5
1401663.99884	506225.668052	-0.87
1401663.4779	506222.713629	0.05

Future Capabilities of eCoastal

Right now we have a number of applications in development that will soon be made accessible to eCoastal users. Although they are being developed for specific Districts or Divisions, they will be available to download for any eCoastal user from our website. Here is a summary of some future applications:



Monitoring Ocean Dumping with eCoastal and Silent Inspector for the South Atlantic Division

The Silent Inspector (SI) application allows near-real time dredging data to be viewed alongside geospatial information stored in an enterprise geodatabase. Using this technology, the US Army Corps of Engineers can monitor the ocean dumping activities of our contractors, run initial quality control queries, and produce reports to inform the Environmental Protection Agency (EPA) of dredge disposal activities. The Spatial Data Branch will develop an online system that allows unauthorized disposal locations to be put through a quality control procedure prior to data being released to the EPA. This application will be served through and ArcIMS environment and reference data

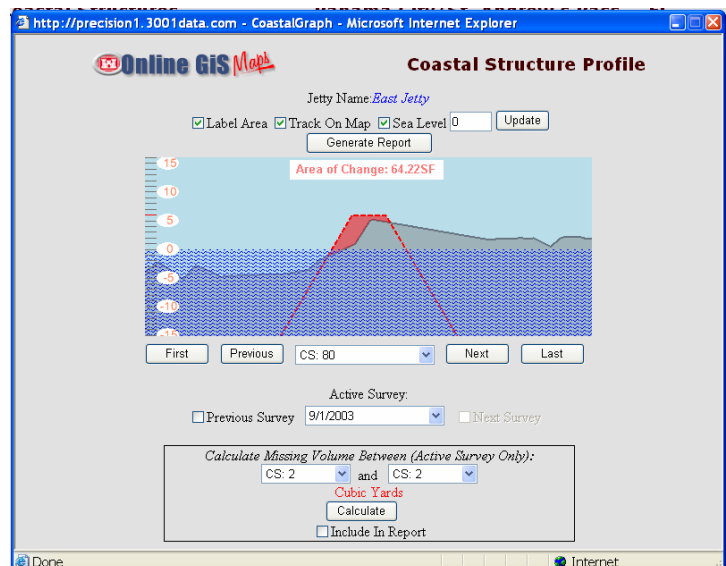
currently stored in the Silent Inspector database.

Coastal Structures Online Viewer for Stan Boc, CHL and Cheryl Pollock, CHL

The Spatial Data Branch will expand the existing capabilities of the new online jetty condition viewer application. The Jetty Condition viewer allows a user to access jetty structures details through an ArcIMS interface, and compare as-built drawings to current state of the jetty based on survey data. Reports are planned to be automatically generated that detect jetty damage areas.

Coastal Structures Desktop Viewer for Jeff Melby, CHL

The coastal structures viewer is an extension to ArcGIS desktop that allows the users to view all project related data – spatial and non-spatial datasets. A view is to be created that allows the user to click on the plotted location of a project area. When the user clicks on the mapping display's hot spot, the map viewer will automatically zoom to the extent of the project area and load applicable project datasets into the Table of Contents. Additional data, such as reports or digital photos, will be available for viewing through an additional toolbar. Also, data collected in the above application will be accessible in this toolbar. This toolbar will contain menus that filter the data related to the coastal structures of the selected project. The user will have the ability to view or add documents or photos at this time.



Contact Us!

Do you have any questions or comments on the eCoastal program? If so, please contact

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